

2008-11-12 1422-0714PUS1_ST25
SEQUENCE LISTING

<110> YASUMOTO, Masazumi
SHIMADA, Masamitsu
HINO, Fumitsugu
KATO, Ikunoshin

<120> COMPOSITION FOR INHIBITING FUNCTION OF HUMAN FLT3

<130> 1422-0714PUS1

<140> US 10/574,904
<141> 2006-04-06

<150> PCT/JP2004/014851
<151> 2004-10-07

<150> JP2003-350253
<151> 2003-10-09

<160> 40

<170> PatentIn version 3.5

<210> 1
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: A partial cDNA sequence of ATP-binding site

<400> 1
aaggtaactag gatcagggtgc t 21

<210> 2
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Designated as SEQ1-S

<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 2
gguacuagga ucaggugcgt t 21

<210> 3
<211> 21

2008-11-12 1422-0714PUS1_ST25

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Designated as SEQ1-AS

<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 3
agcaccugau ccuaguacct t

21

<210> 4
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: A partial cDNA sequence of TK domain

<400> 4
aacaggagtc tcaatccagg t

21

<210> 5
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Designated as SEQ2-S

<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 5
caggagucuc aauccaggut t

21

<210> 6
<211> 21
<212> DNA
<213> Artificial Sequence

2008-11-12 1422-0714PUS1_ST25

<220>
<223> Synthetic oligonucleotide: Designated as SEQ2-AS

<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 6
accuggauug agacuccugt t

21

<210> 7
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: A partial cDNA sequence of FLT3/ITD domain

<400> 7
aatatgaata tgatctcaaa t

21

<210> 8
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Designated as SEQ3-S

<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 8
uaugaaua aug aucucaa aut t

21

<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Designated as SEQ3-AS

Page 3

<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 9
auuugagaua auauucauauat t

21

<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: A partial cDNA sequence of bcr/abl chimera domain

<400> 10
aagcagagtt caaaaagccu u

21

<210> 11
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 11
gcagaguuca aaagccuut t

21

<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

2008-11-12 1422-0714PUS1_ST25

<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 12
aaggccuuuu gaacucugct t

21

<210> 13
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PCR primer FLT11F for amplifying a gene encoding FLT3

<400> 13
gcaatttagg tatgaaagcc agc

23

<210> 14
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PCR primer FLT12R for amplifying a gene encoding FLT3

<400> 14
cttcagcat tttgacggca acc

23

<210> 15
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PCR primer G1 for amplifying a gene encoding GAPDH

<400> 15
caacagcctc aagatcatca gc

22

<210> 16
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: PCR primer G2 for amplifying a gene encoding GAPDH

2008-11-12 1422-0714PUS1_ST25

<400> 16
ttctagacgg caggtcaggt c 21

<210> 17
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Expression cassette FLT3SI1F for expressing siRNA for ATP-binding domain

<220>
<221> misc_feature
<222> (1)..(5)
<223> BamHI restriction site

<220>
<221> misc_feature
<222> (26)..(34)
<223> Loop site

<220>
<221> misc_feature
<222> (54)..(59)
<223> RNA polymerase III terminator

<400> 17
gatcccgta ctaggatcag gtgcttcaa gagaaggcacc tgatcctagt acctttttg 60
gaaa 64

<210> 18
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Expression cassette FLT3SI1R for expressing siRNA for ATP-binding domain

<220>
<221> misc_feature
<222> (1)..(5)
<223> HindIII restriction site

<220>
<221> misc_feature
<222> (10)..(15)
<223> RNA polymerase III terminator site

<220>
<221> misc_feature
<222> (35)..(43)
<223> Loop

<400> 18
agctttcca aaaaaggtac taggatcagg tgcttctttt gaaaggcacct gatcctagta 60

ccgg

64

<210> 19
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide: Expression cassette FLT3CON1F for
 expressing control sequence

<220>
 <221> misc_feature
 <222> (1)..(5)
 <223> BamHI restriction site

<220>
 <221> misc_feature
 <222> (26)..(34)
 <223> Loop site

<220>
 <221> misc_feature
 <222> (54)..(59)
 <223> RNA polymerase III terminator site

<400> 19
 gatcccgag tcgtagctgc agtattcaa gagaatactg cagctacgac tccttttg 60
 gaaa 64

<210> 20
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide: Expression cassette FLT3CON1R for
 expressing control sequence

<220>
 <221> misc_feature
 <222> (1)..(5)
 <223> HindIII restriction site

<220>
 <221> misc_feature
 <222> (10)..(15)
 <223> RNA polymerase III terminator site

<220>
 <221> misc_feature
 <222> (35)..(43)
 <223> Loop

<400> 20
 agctttcca aaaaaggagt cgtagctgca gtattctctt gaaatactgc agctacgact 60

ccgg

64

<210> 21
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Expression cassette FLT3SI3F for expressing siRNA for FLT3/ITD domain

<220>
<221> misc_feature
<222> (1)..(5)
<223> BamHI restriction site

<220>
<221> misc_feature
<222> (26)..(34)
<223> Loop site

<220>
<221> misc_feature
<222> (54)..(59)
<223> RNA polymerase III terminator

<400> 21
gatccctatg aatatgatct caaatttcaa gagaatttga gatcatattc atatttttg 60
gaaa 64

<210> 22
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Expression cassette FLT3SI3R for expressing siRNA for FLT3/ITD domain

<220>
<221> misc_feature
<222> (1)..(5)
<223> HindIII restriction site

<220>
<221> misc_feature
<222> (10)..(15)
<223> RNA polymerase III terminator site

<220>
<221> misc_feature
<222> (35)..(43)
<223> Loop

<400> 22
agctttcca aaaaatatga atatgatctc aaattctctt gaaatttgag atcatattca 60
tagg 64

2008-11-12 1422-0714PUS1_ST25

<210> 23
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Expression cassette FLT3CON3F for
expressing control sequence

<220>
<221> misc_feature
<222> (1)..(5)
<223> BamHI restriction site

<220>
<221> misc_feature
<222> (26)..(34)
<223> Loop site

<220>
<221> misc_feature
<222> (54)..(59)
<223> RNA polymerase III terminator site

<400> 23
gatcccaata atttgcttca aagatttcaa gagaatcttt gaagcaaatt attttttttg 60
gaaa 64

<210> 24
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Expression cassette FLT3CON3R for
expressing control sequence

<220>
<221> misc_feature
<222> (1)..(5)
<223> HindIII restriction site

<220>
<221> misc_feature
<222> (10)..(15)
<223> RNA polymerase III terminator site

<220>
<221> misc_feature
<222> (35)..(43)
<223> Loop

<400> 24
agctttcca aaaaaaataa tttgcttcaa agattctttt gaaatctttg aagcaaatta 60
ttgg 64

2008-11-12 1422-0714PUS1_ST25

<210> 25
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: 5' sequencing primer

<400> 25
taatacgact cactataggg 20

<210> 26
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: 3' sequencing primer

<400> 26
aggcgattaa gttgggta 18

<210> 27
<211> 144
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Juxtamembrane domain

<400> 27
tgtcacaagt acaaaaagca atttaggtat gaaagccagc tacagatggt acaggtgacc 60
ggctcctcag ataatgagta cttctacgtt gatttcagag aatatgaata tgatctcaa 120
tgggagtttc caagagaaaa ttta 144

<210> 28
<211> 471
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: Tyrosine kinase domain

<400> 28
acgcaacagc ttatggaatt agcaaaacag gagtctcaat ccaggttgcc gtcaaaatgc 60
tgaagaaaaa agcagacagc tctgaaagag aggcactcat gtcagaactc aagatgatga 120
cccagctggg aagccacgag aatattgtga acctgctggg ggcgtgcaca ctgtcaggac 180
caatttactt gattttgaa tactgttgct atggtgatct tctcaactat ctaagaagta 240
aaagagaaaaa atttcacagg acttggacag agatttcaa ggaacacaat ttcatgggg 300
accccaactt ccaatcacat ccaaattcca gcatgcctgg ttcaagagaa gttcagatac 360
acccggactc ggtatcaaatc tcagggcttc atggaaattc atttcactct gaagatgaaa 420

<210> 29
 <211> 517
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide: ATP-binding domain

<400> 29
 gagtttggga aggtactagg atcaggtgct tttggaaaag tcatgaacgc aacagcttat 60
 ggaatttagca aaacaggagt ctcaatccag gttgccgtca aatgctgaa agaaaaagca 120
 gacagctctg aaagagaggc actcatgtca gaactcaaga tcatgaccca gctggaaagc 180
 cacgagaata ttgtgaacct gctggggcg tgcacactgt caggaccaat ttacttgatt 240
 tttgaatact gttgctatgg tcatcttctc aactatctaa gaagtaaaag agaaaaattt 300
 cacaggactt ggacagagat tttcaaggaa cacaatttca gtttttaccc cactttccaa 360
 tcacatccaa attccagcat gcctgggtca agagaagttc agatacaccc ggactcgat 420
 caaatctcag ggcttcatgg gaattcattt cactctgaag atgaaattga atatgaaaac 480
 caaaaaaggc tggagaagaaga ggaggacttgc aatgtgc 517

<210> 30
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

<220>
 <221> misc_feature
 <222> (1)..(19)
 <223> ribonucleotides

<220>
 <221> misc_feature
 <222> (20)..(21)
 <223> deoxyribonucleotides

<400> 30
 gguuauguaac aggaacgcatt 21

<210> 31
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide

2008-11-12 1422-0714PUS1_ST25

<220>
<221> misc_feature
<222> (1)..(19)
<223> ribonucleotides

<220>
<221> misc_feature
<222> (20)..(21)
<223> deoxyribonucleotides

<400> 31
ugcguuccug uacauuaacct t

21

<210> 32
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: A partial cDNA sequence of ATP-binding domain

<400> 32
ggtaacttagga tcaggtgtct

19

<210> 33
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: siRNA

<400> 33
gguacuagga ucaggugcu

19

<210> 34
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: siRNA

<400> 34
agcaccugau ccuaguacc

19

<210> 35
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: A partial cDNA sequence of TK domain

<400> 35
caggagtctc aatccaggt

19

2008-11-12 1422-0714PUS1_ST25

<210> 36
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: siRNA

<400> 36
caggagucuc aauccagggu 19

<210> 37
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: siRNA

<400> 37
accuggauug agacuccug 19

<210> 38
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: A partial cDNA sequence of FLT3/ITD domain

<400> 38
tatgaatatg atctcaaat 19

<210> 39
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: siRNA

<400> 39
uaugaaauag aucucaaau 19

<210> 40
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide: siRNA

<400> 40
auuugagagauc auauucaua 19